

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

1. Please replace paragraph [0007] on page 3 of the specification with the following amended paragraph:

The mentioned second valve has two possible operating modes. In the first operating mode, the first and the second valves are opened simultaneously with the start of the first high vacuum pump. Both the primary pump and second high vacuum pump are on when the first high vacuum pump is turned on. This results in a maximum suction capacity of the primary pump through the first high vacuum pump and the bypass extending parallel thereto, which results in minimum pump-out time. In the second operating mode, the second valve remains closed for the moment until the pressure has left the viscous flow range which happens at approximately 0.1 to 1 mbar. Only then is the first high vacuum pump started and simultaneously, the second valve is opened. Again, both the primary pump and second high vacuum pump are on when the first high vacuum pump is turned on. This operating mode offers an optimum protection from dirt from the test piece since it is pumped through the bypass and does not enter the first high vacuum pump.

2. Please replace paragraph [0021] on page 5 of the specification with the following amended paragraph:

In the first operating mode, the valves 31 and 18 are opened simultaneously with the start of the first high vacuum pump 16. Both the primary pump 20 and second high vacuum pump 22 are on when the first high vacuum pump is turned on. Thereby, a minimum pump-out time is achieved by a maximum suction capacity of the primary pump 20, both through the first high vacuum pump 16 and through the bypass 30.

3. Please replace paragraph [0022] on page 5 of the specification with the following amended paragraph:

In the second operating mode, the valve 18 first remains closed until the pressure at the inlet 13 has fallen below a limit value of about 0.1 to 1 mbar, which represents the limit of the viscous flow range. Only when the signal of the pressure gauge 33 indicates that the pressure has fallen below the limit value, the first high vacuum pump 16 is started, and simultaneously, the second valve 18 is opened. Both the primary pump 20 and second high vacuum pump 22 are on when the first high vacuum pump is turned on. In this operating mode, the first high vacuum pump 16 is protected from dirt from the test piece during the pumping out of the gas since the gas is exclusively led through the bypass 30.

4. Please replace the title of the invention with the following amended title:
Leak Detector Comprising A Vacuum Apparatus